Application No. 10/081,885 Amendment dated November 3, 2003 Roply to Office Action of July 1, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Currently amended) A method for identifying an individual exhibiting symptoms of a
 muscular dystrophy as an individual suffering from scapuloperoneal muscular dystrophy,
 said method comprising the steps of:
 - (a) obtaining a <u>muscle</u> tissue sample from an individual exhibiting symptoms of a dystrophy, wherein said individual is at least teen-aged and wherein said symptoms affecting the <u>muscles</u> of the shoulder girdle and peroneal, wherein said tissue sample is obtained from a tissue known in a normal individual to express α7β1 α7A integrin;
 - (b) detecting a transcription <u>product</u> of an <u>α7β1 α7A</u> integrin gene <u>using</u> <u>hybridization or reverse transcriptase-polymerase chain reaction</u> or a translation product of an α7β1 α7A integrin gene <u>using a detectable antibody specific for α7A</u> integrin in said tissue sample;
 - (c) determining a level of the transcription or translation product of the α7β1 α7Α integrin gene in said tissue sample as compared with a level of the transcription or translation product of the integrin gene in a tissue sample from the same tissue of a normal individual, whereby:
 - (d) diagnosing scapuloperoneal muscular dystrophy is diagnosed when the tissue sample of an individual exhibiting muscular dystrophy symptoms comprises a level of a transcription or translation product of the α7β1 α7Α integrin gene in said

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tissue sample which is lower than the level in a tissue sample from the same tissue of a normal individual.

- (Currently amended) The method of claim 1 wherein the translation product of an α7β1
 α7Α integrin gene in said tissue sample is detected by contacting the tissue sample using an α7β1 α7Α integrin-specific antibody.
- 3. (Currently amended) The method of claim 2 wherein the $\alpha 7\beta 1$ $\alpha 7\Delta$ integrin-specific antibody is detectably labeled.
- 4. (Currently amended, withdrawn) The method of claim 1 wherein a transcription product of an $\alpha 7\beta 1$ $\alpha 7A$ integrin gene is detected in the tissue sample.
- 5. (Withdrawn) The method of claim 4 where the transcription product is detected using reverse transcriptase-polymerase chain reaction.
- 6. (Withdrawn) The method of claim 5 wherein the primers used in the reverse transcriptase polymerase chain reaction comprise the nucleotide sequences of SEQ ID NO:4 and SEQ ID NO:5.
- 7-23. Canceled without prejudice.
- 24. (New) The method of claim 1 further comprising the step of detecting a transcription product of a laminin gene by hybridization or reverse transcriptase polymerase chain reaction or a translation product of a laminin gene using a detectable laminin-specific

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> antibody, whereby scapuloperoneal muscular dystrophy is diagnosed when laminin expression is normal and $\alpha 7A$ integrin expression is reduced in the muscle tissue sample.